

# **All India Coordinated Research Project on Agrometeorology**

## **CRIDA, Santoshnagar, Hyderabad – 500 059**

### **Daily Crop Weather Information as on 17 September 2021**

**Attention: Rajiv Maheshwari, OSD, ICAR**

#### **Significant Weather Features (IMD)**

- A Well Marked Low Pressure Area lies over northwest Madhya Pradesh & adjoining southwest Uttar Pradesh. It is very likely to weaken into a Low Pressure Area during next 24 hours and become less marked during subsequent 48 hours.
- A cyclonic circulation lies over Eastcentral Bay of Bengal & adjoining northeast Bay of Bengal and extends upto mid tropospheric levels tilting southwestwards with height. It is very likely to move west-northwestwards and reach Northwest Bay of Bengal off north Odisha-West Bengal coasts around 18th September, 2021 and then move west-northwestwards during subsequent 2-3 days.
- The monsoon trough lies south of its normal position. It is very likely to remain south of its normal position during next 5 days.
- Weather forecast and Warning:
  - (i) Under the influence of the Well Marked Low Pressure Area and its associated cyclonic circulation; fairly widespread rainfall with isolated heavy falls are likely over Gujarat Region, Rajasthan and West Madhya Pradesh during next 3 days. Rainfall activity over Gujarat State is likely to increase from 19th September. Widespread rainfall with isolated heavy to very heavy falls are likely over Gujarat State and East Rajasthan during 19th-21st September, 2021.
  - (ii) Under the influence of the Well Marked Low Pressure Area and its associated cyclonic circulation; fairly widespread rainfall with isolated heavy falls are likely over Gujarat Region, Rajasthan and West Madhya Pradesh during next 3 days. Rainfall activity over Gujarat State is likely to increase from 19th September. Widespread rainfall with isolated heavy to very heavy falls are likely over Gujarat State and East Rajasthan during 19th-21st September, 2021. Scattered rainfall with isolated heavy falls very likely over East Uttar Pradesh during next 24 hours and decrease thereafter. Fairly widespread rainfall with isolated heavy falls very likely over Uttarakhand and Himachal Pradesh during 19th-21st September. Light to moderated isolated/scattered rainfall activity likely over rest parts of northwest India during next 5 days.

(iii) Under the influence of the Well Marked Low Pressure Area and its associated cyclonic circulation; fairly widespread rainfall with isolated heavy falls are likely over Gujarat Region, Rajasthan and West Madhya Pradesh during next 3 days. Rainfall activity over Gujarat State is likely to increase from 19th September. Widespread rainfall with isolated heavy to very heavy falls are likely over Gujarat State and East Rajasthan during 19th-21st September, 2021. Rainfall activity is likely to increase over Odisha & Gangetic West Bengal with fairly widespread to widespread rainfall & isolated heavy falls over above areas from 18th to 20th September, 2021.

- The images showing the latest satellite picture in the figure. 1.

### **Main Weather Observations (IMD)**

- Rainfall/Thundershowers observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at most places over Uttar Pradesh and Gangetic West Bengal; at many places over Haryana, Chandigarh & Delhi, Sub-Himalayan West Bengal & Sikkim, Chhattisgarh, Andaman & Nicobar Islands and Madhya Pradesh; at a few places over Gujarat state, Bihar, Assam & Meghalaya, Odisha and Kerala & Mahe and at isolated places over Nagaland, Manipur, Mizoram & Tripura, Jharkhand, East Rajasthan, Konkan & Goa, North Interior Karnataka, Lakshadweep, Coastal Andhra Pradesh & Yanam and Tamil Nadu, Puducherry & Karaikal.
- Heavy Rainfall recorded (from 0830 hours IST of yesterday to 0830 hours IST of today): Extremely heavy rainfall at isolated places over East Uttar Pradesh; Very heavy rainfall at isolated places over West Uttar Pradesh and Sub-Himalayan West Bengal & Sikkim and heavy rainfall at isolated places over Jammu division, Himachal Pradesh, Uttarakhand, Punjab, East Rajasthan, West Madhya Pradesh, Chhattisgarh, Gujarat state and Andaman & Nicobar Islands.
- Thunderstorm observed (from 0830 hours IST of yesterday to 0830 hours IST of today): at isolated places over Jammu & Kashmir, Uttrakhand, Delhi, Odisha, Gujarat State, Himachal Pradesh, North Haryana, Bihar, Coastal Andhra Pradesh & Yanam, East Uttar Pradesh, East Madhya Pradesh, Chhattisgarh, Jharkhand, West Bengal & Sikkim, Assam & Meghalaya, Tripura, Tamilnadu, Puducherry & Karaikal and Telangana.
- Maximum Temperature Departures as on 16-09-2021: Maximum temperatures were above normal (1.6°C to 3.0°C) at most places over Assam & Meghalaya; at many places over Himachal Pradesh, Punjab, Sub-Himalayan West Bengal & Sikkim, Arunachal Pradesh, Coastal Andhra Pradesh & Yanam, Coastal

Karnataka and Tamilnadu, Puducherry & Karaikal; at a few places over West Rajasthan, Bihar and Rayalaseema; at isolated places over Saurashtra & Kutch and Gangetic West Bengal. They were markedly below normal ( $-5.1^{\circ}\text{C}$  or less) at many places over Uttar Pradesh; appreciably below normal ( $-3.1^{\circ}\text{C}$  to  $-5.0^{\circ}\text{C}$ ) at most places over East Madhya Pradesh; at many places over West Madhya Pradesh; below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at many places over Vidarbha, Haryana, Chandigarh & Delhi and Chhattisgarh; at a few places over Andaman & Nicobar Islands and Gujarat Region; at isolated places over Odisha and Kerala & Mahe and near normal over rest parts of the country. Yesterday, the highest maximum temperature of  $38.9^{\circ}\text{C}$  was reported at Jaisalmer (West Rajasthan).

- Minimum Temperature Departures as on 17-09-2021: Minimum temperatures are appreciably above normal ( $3.1^{\circ}\text{C}$  to  $5.0^{\circ}\text{C}$ ) at a few places over West Rajasthan; at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh and Saurashtra & Kutch; above normal ( $1.6^{\circ}\text{C}$  to  $3.0^{\circ}\text{C}$ ) at many places over Uttarakhand and Tamil Nadu, Puducherry & Karaikal; at a few places over Coastal Andhra Pradesh & Yanam; at isolated places over Punjab, East Rajasthan, Madhya Pradesh, Madhya Maharashtra, Konkan & Goa and Lakshadweep. They are below normal ( $-1.6^{\circ}\text{C}$  to  $-3.0^{\circ}\text{C}$ ) at a few places over East Uttar Pradesh and near normal over rest parts of the country. Today, the lowest minimum temperature of  $18.5^{\circ}\text{C}$  is reported at Bulsar (Gujarat Region) over the plains of the country.

#### **Weather Warning during the next 5 days (IMD)**

- 17 September (Day 1): Heavy rainfall very likely at isolated places over East Uttar Pradesh, East Rajasthan, Bihar, West Bengal & Sikkim, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over East Uttar Pradesh, Rajasthan, West Madhya Pradesh, Bihar, Jharkhand, Gangetic West Bengal, Arunachal Pradesh, Assam & Meghalaya, Nagaland, Manipur, Mizoram & Tripura and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely over the Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 18 September (Day 2): Heavy rainfall very likely at isolated places over Rajasthan, West Madhya Pradesh, West Bengal & Sikkim, Odisha, Nagaland, Manipur, Mizoram & Tripura, Gujarat Region and Tamilnadu, Puducherry & Karaikal. Thunderstorm accompanied with lightning very likely at isolated places over East Uttar Pradesh, Rajasthan, Jharkhand, Assam & Meghalaya, Nagaland, Manipur,

Mizoram & Tripura, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely over the Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.

- 19 September (Day 3): Heavy to very heavy rainfall very likely at isolated places over East Rajasthan, Gujarat Region and Tamilnadu, Puducherry & Karaikal and heavy rainfall at isolated places over Uttarakhand, West Rajasthan, Madhya Pradesh, Chhattisgarh, Gangetic West Bengal, Odisha and Saurashtra & Kutch. Thunderstorm accompanied with lightning very likely at isolated places over East Uttar Pradesh, Rajasthan, Jharkhand, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal. Squally weather (wind speed 40-50 kmph to gusting 60 kmph) very likely over the Southwest & Westcentral Arabian Sea. Fishermen are advised not to venture into these areas.
- 20 September (Day 4): Heavy to very heavy rainfall likely at isolated places over East Rajasthan and Gujarat state and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, West Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Odisha, Konkan & Goa and Telangana. Thunderstorm accompanied with lightning likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Madhya Maharashtra, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- 21 September (Day 5): Heavy to very heavy rainfall likely at isolated places over Gujarat state and heavy rainfall at isolated places over Himachal Pradesh, Uttarakhand, East Rajasthan, Madhya Pradesh, Vidarbha, Chhattisgarh, Konkan & Goa and Telangana. Thunderstorm accompanied with lightning likely at isolated places over Jammu, Kashmir, Ladakh, Gilgit, Baltistan & Muzaffarabad, Himachal Pradesh, Uttarakhand, Punjab, Haryana, Chandigarh & Delhi, Uttar Pradesh, Rajasthan, Coastal Andhra Pradesh & Yanam, Telangana, Kerala & Mahe and Tamilnadu, Puducherry & Karaikal.
- The weather outlook for seven days i.e., 17 Sep to 25 Sep 2021 forecasted (Provided by Real-Time Weather Forecasts from NOAA/NCEP collected from <http://monsoondata.org/wx2/>) rain/thundershower may occur over Some parts of Extreme northern parts of India. (Fig. 2).

## Agricultural activities (AICRPAM-CRIDA)

### Western U.P

#### Weather condition:

Cloudy weather appearing during 15-21 September and 50.9 mm cumulative rainfall forecast from 15-19 September, 2021. Maximum temperature may be 1-20C higher its normal and minimum temperature may be near to its normal. South-easterly / South - westerly winds majorly prevailing 6.5 to 28.9 km/hr range which would be 4 to 6 kmph above to its normal during these days.

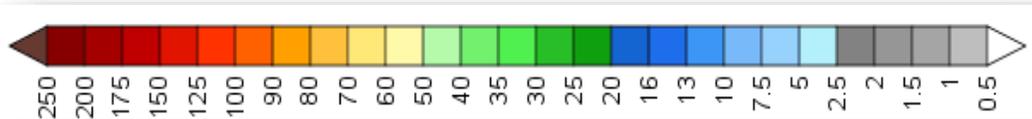
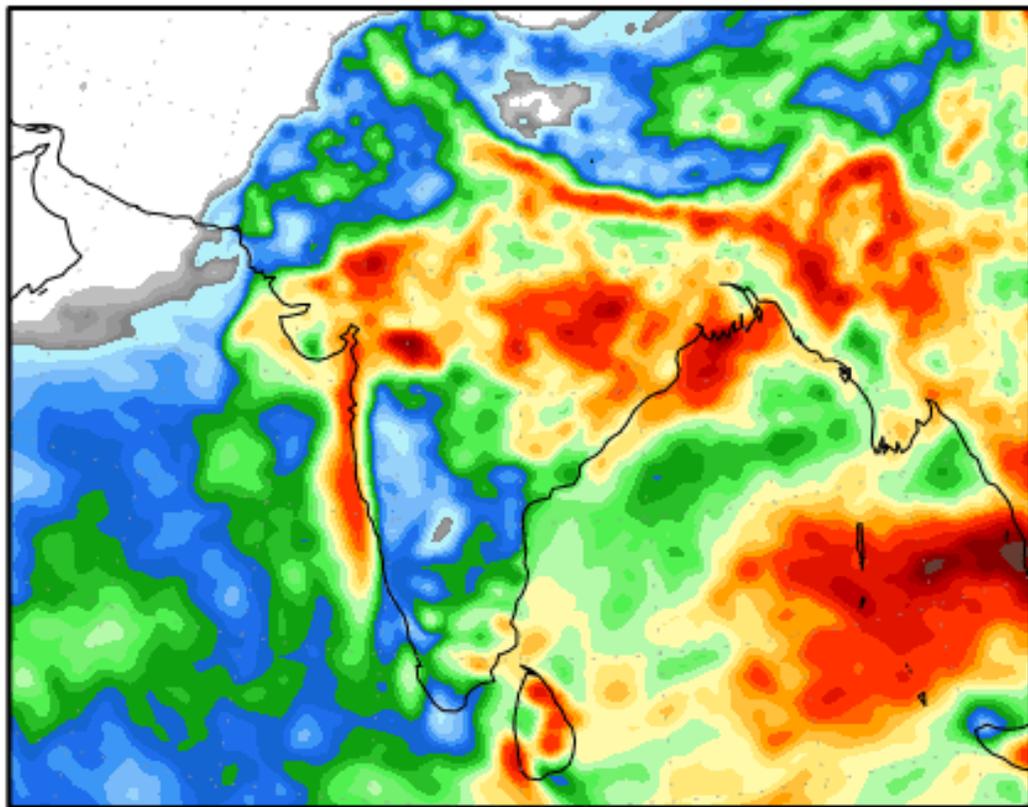
#### Contingency measure:

- Paddy: 51.1mm rainfall was observed from last week and 50.9 mm cumulative rainfall forecast during this week farmers are advised stop irrigation in paddy crop. Farmers are also advised farmers to skip spraying of insecticide, top dressing of Urea. After 24 hours of rains at clear sky if seen 10 Green hopper, 2 adult of Hispa per hill of paddy used Cypermethrin 10 % EC @ 0.5 l/ha or Imidacloprid 17.8% SL @ 200 ml/ha with 500 to 600 lt of water. For controlling of Gundhibug population reaches 2-3 insect per hill apply Imidacloprid 17.8% SL @ 200 ml/ha, Acetamiprid 20% SP @ 350 g/ha or Malathion dust 5% @ 20-25 kg/ha. or sparing Monocrotophos 36 WSC @ 1.5 lt. per hectare.
- Maize: No need of irrigation due to rainfall occurred during last week and 50.9 mm rainfall forecat during cumming week. Protect from birds at milking and dough stage. If seen shoot borer or leaf roller, apply 2% dust of Fenthroet @ 25to 30 kg/ha. Or Chlorantraniliprole 18.5%SC @ 150ml/ha with 500 to 600 lt. of water at clear sky. Drain out excise water from field.
- Sorghum: Farmers are advised to skip irrigation and spraying of insecticide. If seen shoot borer dusting should be done with Carbofuran, 3G @ 20kg/ha or Chlorantraniliprole 18.5%SC @ 150ml/ha with 500 to 600 lt. of water at clear sky. Drain out excise water from field.
- Pearlmillet: Farmers are advised to skip irrigation and spraying of insecticide. For control of shoot borer or leaf roller, apply 2% dust of Fenthroet @ 25to 30 kg/ha. Or Chlorantraniliprole 18.5%SC @ 150ml/ha with 500 to 600 lt. of water during clear day. Drain out excise water from field.
- Pigeon pea: Weeding should be completed in late sowing crop, plant population should be maintained by thinning and to control leaf roller, apply 2% dust of Fenthroet @ 25to 30 kg/ha. Or Fenitrothiyan 50 EC 2.0 lt. /ha with 500 to 600 lt. of water during clear day.
- Black gram: Farmers are advised to skip irrigation and spraying of insecticide.

Monitor for insect and pest. Drain out excess water from field.

- Green gram: Farmers are advised to skip irrigation and spraying of insecticide. Monitor for insect and pest. Drain out excess water from field.
- Ground nut: Skip irrigation and spraying of insecticide. If seen Tikka disease spray 2% Mancozeb or Zineb 75% 2.5kg or Ziram 27% 3lt with 500 to 600 lt of water solution at clear sky. Drain out excess water from field.
- Toria: Sowing should be start after rains.
- Brinjal / Chilies: Transplanting should be done with new seedlings. Pick up mature fruits from standing crop, watching insect & pest, if need spray recommended dose of insecticide at clear sky.
- Leafy Vegetable: Sowing of Palak , Soya, Methi, Coriander and Radish after forecasted rain. Cutting and marketing .
- Jowar / Maize Mucchari + Lobia + Moongbeen : Cutting should be done.
- Animal : Bathing of animals should be done before milking and fresh water should be used for drinking. Balanced diet should be given for milch animal with 50% green fodder. Common diseases of animals are Anthrax (high fever and enlargement of spleen), the others are Gala Ghotu (respiratory trouble and Surra ( Sudden death of animals after restlessness ). The routine immunization of animals becomes necessary since disease decrease milk production capacity among milch animals if need concerned near Veterinary hospital.





**Figure:2. Precipitation forecast for 17 Sep to 25 Sep 2021 (Source: NOAA NCEP).**

*Disclaimer: The predictability of weather depends on many dynamic factors. The success of Agromet advisories provided here depends on the accuracy of the forecasts. In no event will India Meteorological Department (IMD) and Indian Council of Agricultural Research (ICAR) be liable to the user or any third party for any direct, indirect, incidental, consequential, special or exemplary damages or lost profit resulting from any use or misuse of the information on this bulletin.*